

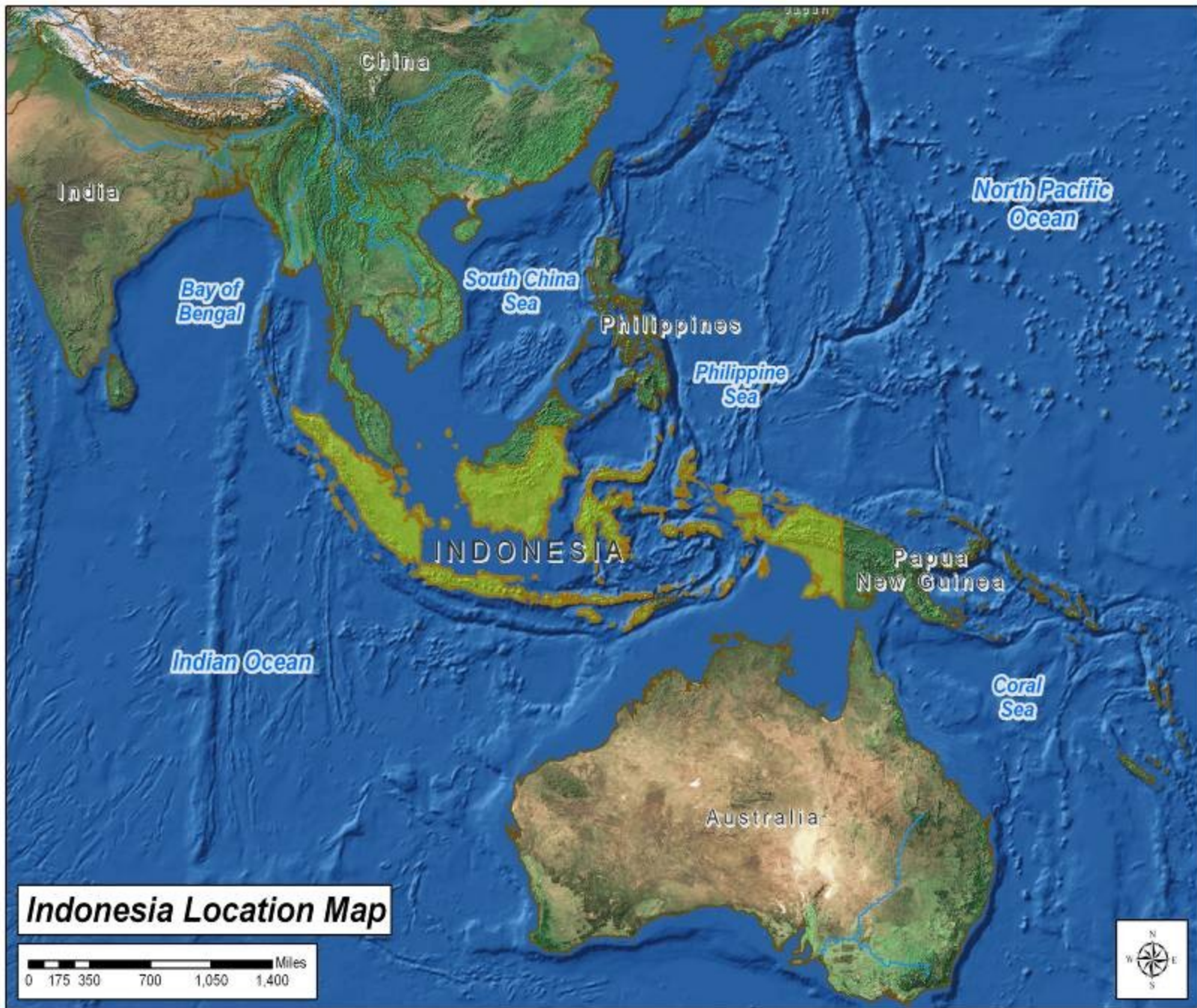
# INDONESIA



- Country the worst hit by December 2004 tsunami
- Strained public health systems
- Reconstruction may take a decade



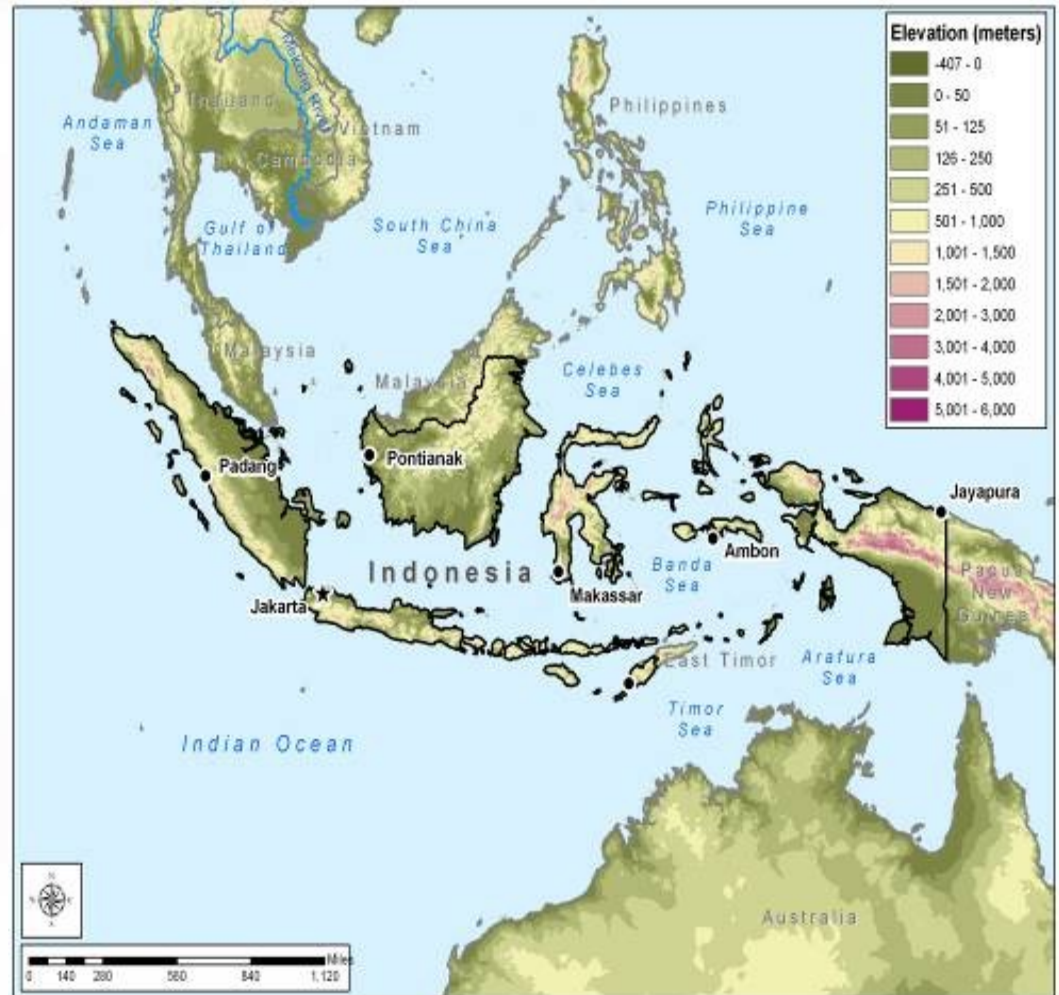
# Where in the world is Indonesia?





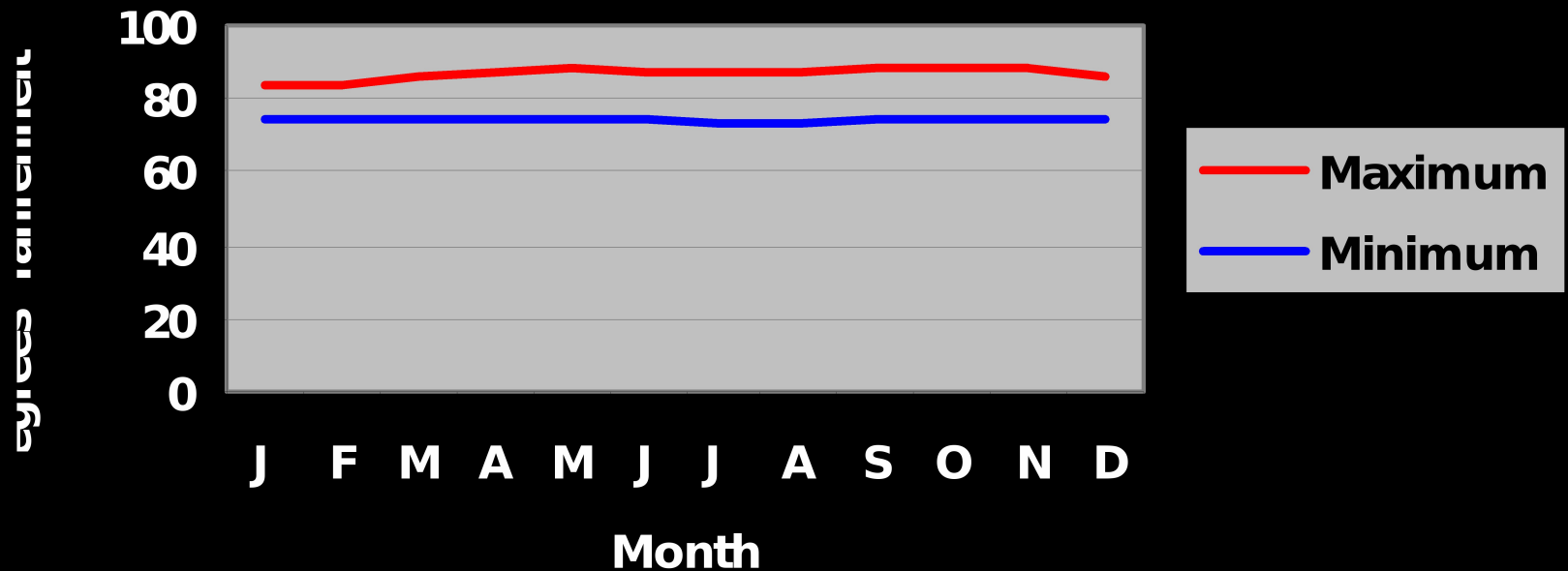
# PHYSICAL ENVIRONMENT

- **Topography**
  - **About three times the size of Texas**
  - **Rugged volcanic mountains covered by dense tropical forest**
- **Climate**
  - **Tropical monsoon**
  - **High temp and humidity**
  - **Frequent rain**



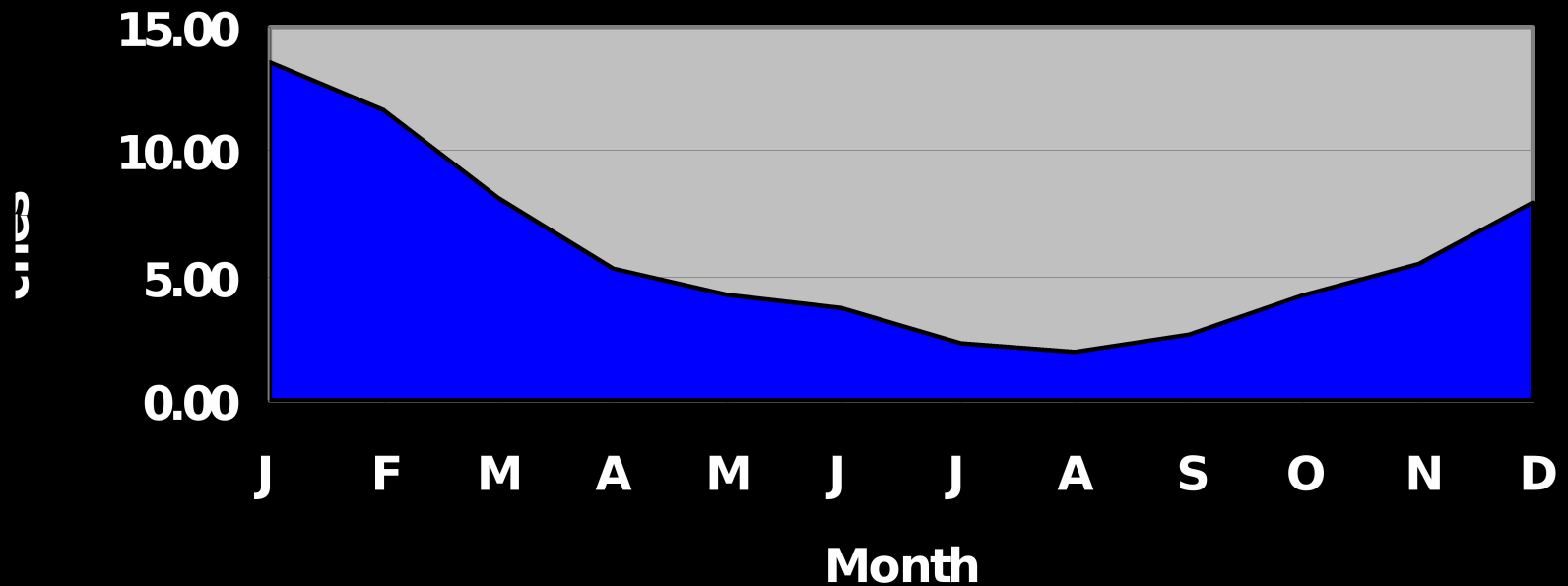
# Physical Environment

Average Max/Min Temperature in Jakarta



# Physical Environment

Average Total Precipitation in Jakarta



# **Environmental Health Risk**

- **Greatest short term risks associated with**
  - **ingestion of contaminated water**
  - **extreme heat / humidity**
  - **air pollution**



# Environmental Issues

- Air Contamination
  - Overall health risk is minimal
  - Most severe air pollution in Jakarta and Surabaya
  - Short-term exposure presents a minimal risk of temporary coughing, wheezing, and reduced lung function





# Environmental Issues Cont.

- Soil Contamination
  - Specific information is not available
  - Significant exposure is unlikely
- Water Contamination
  - Subject to microbial contamination
  - Uncontrolled discharge of industrial wastes
  - Do not drink local water





# Infectious Disease Risk Definitions

HIGH	INTERMEDIATE	LOW
<p><b>The main force health protection emphasis should be on these diseases, which are the most likely to degrade operations by affecting a large percentage of personnel, or by causing severe illness in a smaller percentage.</b></p>	<p><b>These diseases also warrant force protection emphasis. They are less likely to degrade operations because they generally affect smaller numbers of personnel, or cause mild symptoms.</b></p>	<p><b>Other militarily significant diseases that are likely to have a minimal impact on operational readiness. These diseases are not generally discussed in the Medical Threat Presentations.</b></p>

# Infectious Disease Risk

- **HIGH RISK** for infectious diseases
- Inadequate force health protection (FHP) measures, will seriously jeopardize mission effectiveness

# Infectious Diseases

- Foodborne and Waterborne Diseases
  - **HIGH RISK** = Diarrhea – bacterial/protozoal, hepatitis A & E, typhoid/paratyphoid fever
  - **INTERMEDIATE RISK** = Brucellosis, cholera
- FHP Priorities
  - **Deploy appropriate PM personnel and equipment**
  - Consume food, water, ice only from US-approved sources
  - Operate food preparation facilities in accordance with Army doctrine
  - Ensure proper hand washing facilities near all latrines and dining facilities and enforce



# Infectious Diseases Cont.

- Vector-borne Diseases

- **HIGH RISK** = Dengue fever, Malaria, Chikungunya
- **INTERMEDIATE RISK** = Japanese encephalitis, Typhus (miteborne/fleaborne)

- FHP Priorities

- Use DEET on all exposed skin
- Treat field uniforms with permethrin
- Use bed nets in field conditions, treat with permethrin
- Sleeves down, pants tucked into boots





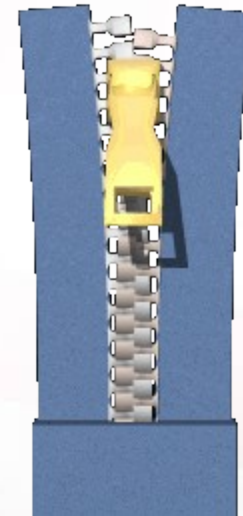
# Infectious Diseases Cont.

- Animal-contact Diseases
  - **INTERMEDIATE RISK** = Anthrax, Q-fever, Rabies
- FHP Priorities
  - Avoid animal contact (alive or dead), especially if an animal exhibits strange behavior
  - No mascots
  - Report all animal bites and scratches
  - Do not keep food in living areas
  - Dispose of trash properly



# Infectious Diseases Cont.

- Sexually Transmitted Diseases
  - **HIGH RISK** = Hepatitis B
  - **INTERMEDIATE RISK** = gonorrhea/chlamydia, HIV/AIDS
- FHP Priorities
  - Avoid sexual contact
  - Use latex condoms if sexually active
  - Flies transmit disease
    - \*keep yours closed!\*



# Infectious Diseases Cont.

- Water-contact Diseases
  - **INTERMEDIATE RISK** = leptospirosis, schistosomiasis
- FHP Priorities
  - avoid unnecessary contact with lakes, rivers, streams, and other surface water

There will not be a sign like

**WARNING!**

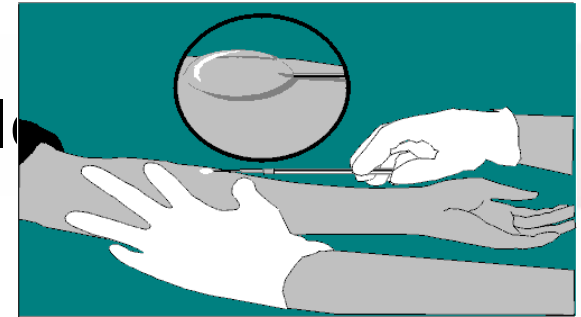
**LEPTOSPIROSIS  
HEALTH HAZARD**

FRESH WATER STREAMS AND MUD  
POSSIBLY POLLUTED WITH BACTERIA

SWIM, BOAT,  
OR HIKE AT YOUR OWN RISK

# Infectious Diseases Cont.

- Respiratory Diseases
  - **INTERMEDIATE RISK** = tuberculosis



- FHP Priorities
  - 72 sqft/person and head-to-toe sleeping arrangement
  - Cough or sneeze into your upper sleeve instead of your hands
  - Wash hands at every opportunity
  - Avoid close contact with local population



# Hazardous Animals & Plants

- Animals

- Snakes, ants, scorpions, spiders

- Plants

- Toxic resins, thorns...

- FHP Priorities

- Do not handle animals
- Shake out boots, clothing, & bedding
- Do not touch, chew, eat, or burn unfamiliar plants



# SUMMARY

- Physical Environment
- Infectious Diseases = **HIGH RISK**
- Hazardous Animals and Plants
- FHP measures are simple and effective
  - Use and Enforce
  - Will conserve the fighting stren

